

# INTERNATIONAL SEARCH REPORT

onal Application No  
PCT/US2004/017340

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G01N21/27

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EP0-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 816 829 A (HUTCHINSON TECHNOLOGY)	19,20
Y	7 January 1998 (1998-01-07) page 7, line 6 - line 8  page 7, line 20 - line 24 page 9, line 37 - line 44 page 10, line 5 - line 12 page 13, line 18 - line 23 page 14, line 18 - line 20 page 14, line 46 - line 52 figure 15  ----- -/--	1-18,21, 22

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents:

\*A\* document defining the general state of the art which is not considered to be of particular relevance

\*E\* earlier document but published on or after the international filing date

\*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

\*O\* document referring to an oral disclosure, use, exhibition or other means

\*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*Z\* document member of the same patent family

Date of the actual completion of the international search

1 November 2004

Date of mailing of the international search report

11/11/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

D'Alessandro, D

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/JP2004/017340

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>WO 02/14793 A (DIETIKER THOMAS ; ELEKON IND INC (US))  21 February 2002 (2002-02-21)  page 2, last paragraph  page 6, paragraph 1  page 7, paragraphs 2,4  page 10, paragraph 3  figures 4B,9</p>	1-18,21,22
X	<p>WO 01/73405 A (HUTCHISON JAMES S ; UMM ELECTRONICS INC (US); RIEDEL RICHARD A (US)) 4 October 2001 (2001-10-04)  page 5, line 8 - line 12  page 9, line 29 - page 10, line 17  page 10, line 27 - page 11, line 4  page 11, line 14 - line 20  figures 1A,3</p>	19,20
A	<p>US 6 201 607 B1 (PAOLINI GREGORY P ET AL)  13 March 2001 (2001-03-13)  column 2, line 21 - line 40  figures 1-3</p>	1-22
A	<p>EP 0 653 622 A (FUJI PHOTO FILM CO LTD)  17 May 1995 (1995-05-17)  abstract  page 2, line 30 - line 47  page 6, line 35 - page 8, line 47  figure 1</p>	1-22

# INTERNATIONAL SEARCH REPORT

In International Application No  
PCT/US2004/017340

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0816829	A	07-01-1998	US 5879294 A DE 69724351 D1 DE 69724351 T2 EP 0816829 A2 JP 10085204 A JP 2003315259 A	09-03-1999 02-10-2003 09-06-2004 07-01-1998 07-04-1998 06-11-2003
WO 0214793	A	21-02-2002	AU 8123101 A CA 2419054 A1 EP 1307708 A2 WO 0214793 A2	25-02-2002 21-02-2002 07-05-2003 21-02-2002
WO 0173405	A	04-10-2001	AU 5293301 A WO 0173405 A1	08-10-2001 04-10-2001
US 6201607	B1	13-03-2001	US 5995236 A	30-11-1999
EP 0653622	A	17-05-1995	JP 3212779 B2 JP 7140077 A DE 69424257 D1 DE 69424257 T2 EP 0653622 A1 US 5592290 A	25-09-2001 02-06-1995 08-06-2000 31-08-2000 17-05-1995 07-01-1997